IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents

Washington, DC 20231

AU6 1 3 1998 6

REVOCATION OF PRIOR POWERS OF ATTORNEY AND APPOINTMENT OF NEW POWER OF ATTORNEY

Massachusetts Institute of Technology, the Assignee of certain rights, titles and interest in the patent applications listed below by virtue of Assignment documents of record in the Patent Office, hereby revokes all previous powers of attorney with respect to these patent applications heretofore granted and appoints the following attorneys with full power of substitution and revocation to prosecute applications and transact all business in the U.S. Patent and Trademark Office connected therewith:

| Beth E. Arnold | Reg. No. 33,978 Reg. No. 35,430 Reg. No. 36,709 Reg. No. (see attached) | Charles H. Cella John C. Gorecki Edward J. Kelly Sayoko Blodgett-Ford | Reg. No. 38,099 Reg. No. 38,471 Reg. No. 38,936 Reg. No. 40,516 |
|----------------|--|--|--|
|----------------|--|--|--|

all of the Patent Group of Foley, Hoag & Eliot LLP at One Post Office Square, Boston, MA 02109.

| A | SERIAL NO. | TITLE | FILING DATE |
|----------------------------------|------------|---|---------------|
| APPLICANTS | | Nuclear Factors Associated with Transcriptional Regulation | 06 April 1995 |
| Baltimore, et al. | 08/418,266 | | 05 June 1995 |
| Baltimore, et al. | 08/463,397 | Nuclear Factors Associated with Transcriptional Regulation | |
| Baltimore, et al. | 08/464,364 | Nuclear Factors Associated with Transcriptional Regulation | 05 June 1995 |
| Pomerantz, et al. | 08/366,083 | Chimeric Transcription Factors | 29 Dec. 1994 |
| Sen, R. and Baltimore, D. | 946,365 | Method of Inducible Gene Expression | 23 Dec. 1986 |
| Bacurle, P. and Baltimore, D. | 07/162,680 | Activation of NF-kB Precursor | 01 March 1988 |
| Bacurle, P. and Baltimore, D. | 07/318,901 | Activation of NF-kB Precursor | 03 March 1989 |
| Lenardo, et al. | 07/341,436 | NF-xB - Mediated Transcriptional Regulation | 21 April 1989 |

The undersigned, whose title is supplied below, is empowered to sign this Revocation and New Power of Attorney on behalf of the Assignee. The original copy of this Revocation and New Power of Attorney is being filed in U.S. Patent Application No. 08/418,266.

Dated: Oct 30, 1997

JARMILA Z. HRBEK

PRINT OR TYPE NAME OF PERSON SIGNING

PATENT ADMINISTRATOR and TIME Office Manager

PTO/SB/96 (12-97)

Approved for use through 9/30/00, OMB 0651-0031

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

aperson. Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number CERTIFICATE UNDER 37 C.F.R. 3.73(b) AUG 1 3 1998 5 Pomerantz, Phillip A. Sharp and Carl O. Pabo Applicant: <u>Joel L.</u> Filed: 29 December 1994 **0**8/366,083 Entitled: In Chimeric Transcription Factors University Massachusetts Institute of Technology , a_ (Type of Assignee: corporation, university, government agency, etc.) (Name of Assignee) certifies that it is: the assignee of the entire right, title and interest; or [X] an assignee of an undivided part interest in the patent application identified above by virtue of either: An assignment from the inventor(s) of the patent application identified above. [] OR A chain of title from the inventor(s), of the patent application identified above, to the current assignee [X] as shown below: To: Howard Hughes Medical Institute From: Carl O. Pabo 1. The document was recorded in the Patent and Trademark Office at Reel 7455, Frame 0674, or for which a copy thereof is attached. From: Joel L. Pomerantz and Phillip A. Sharp To: Massachusetts Institute of Technology 2. The document was recorded in the Patent and Trademark Office at Reel 7455, Frame 0664, or for which a copy thereof is attached. From: <u>Howard Hughes Medical Institute</u> To: <u>Massachusetts Institute of Technology</u> 3. The document was recorded in the Patent and Trademark Office at Reel 7455, Frame 0671, or for which a copy thereof is attached. [] Additional documents in the chain of title are listed on a supplemental sheet. [X] Copies of assignments or other documents in the chain of title are attached. The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee. July 6 1998 Jarmila Z. Hrbek Typed or printed name Patent Administrator Title



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

JUNE 21, 1995

PTAS

PATRICIA GRANAHAN, ESQ.

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

TWO MILITIA DRIVE

LEXINGTON XA 02173

AU6 1 3 1998

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/28/1995

REEL/FRAME: 7455/0671

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HOWARD HUGHES MEDICAL INSTITUTE

DOC DATE: 04/18/1995

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE

CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 08366083

PATENT NUMBER:

FILING DATE: 12/29/1994

ISSUE DATE:

JACQUELINE MOORE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

| FORM PTO-1595 | | | | |
|--|---|--|--|--|
| (Rev. 6-93) OMB No.:0651-0011 (000-194) APR APR | | | | |
| Tab settings = 22 28 | /, CD /MIT-6834 _ /) | | | |
| To the Honorable Commissioner of Pa 103002 | ached original documents or copy thereof. | | | |
| Name of conveying party(ies): | Name and address of receiving party(ies) | | | |
| Howard Hughes Medical Institute | Name: Massachusetts Institute of Technology | | | |
| | Internal Address: | | | |
| Additional name(s) of conveying party(ies) attached? ☐ Yes ☑ No | internal Address. | | | |
| 3. Nature of conveyance: | | | | |
| ☑ Assignment ☐ Merger | Street Address: 77 Massachusetts Avenue | | | |
| ☐ Security Agreement ☐ Change of Name | | | | |
| Other | City: Cambridge State: MA ZIP: 02139 | | | |
| Execution Date: April 18, 1995 | Additional name(s) & address(es) attached? Yes No | | | |
| 4. Application number(s) or patent number(s): | | | | |
| If this document is being filed together with a new application | n, the execution date of the application is: | | | |
| A. Patent Application No.(s) 08/366,083 | B. Patent No.(s) | | | |
| 00,000 | 2. · C.O.N. · · O.(O) | | | |
| Additional numbers at | ached? ☐ Yes ❷ No | | | |
| Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: 1 | | | |
| Name: Patricia Granahan, Esq. | 7. Total fee (37 CFR 3.41)\$_40.00 | | | |
| Internal Address: Hamilton, Brook, Smith & | ☑ Enclosed | | | |
| Reynolds, P.C. | Authorized to be charged to deposit account | | | |
| Street Address: Two Militia Drive | 8. Deposit account number: | | | |
| | 08-0380 | | | |
| City: Lexington State: MA ZIP: 02173 | (Attach duplicate copy of this page if paying by deposit account) | | | |
| PRO MERCE DEZ VACES DO NOTUS | E THIS SPACE | | | |
| Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. | | | | |
| Patricia Granahan, Esq. Kuttuc | ea hanchan April 25, 1995 | | | |
| Name of Person Signing Total number of pages including | Signature Date cover sheet, attachments, and document: | | | |
| | | | | |

ASSIGNMENT

Assignment made April 1995, by the Howard Hughes Medical Institute, a Delaware corporation (the "Institute") to Massachusetts Institute of Technology ("MIT").

Recitals

WHEREAS, the Institute and MIT collaborate in the active conduct of medical research pursuant to a Statement and Agreement of Collaboration between them dated as of February 1, 1988, as amended (the "Collaboration Agreement");

WHEREAS, pursuant to the Collaboration Agreement, the Institute has agreed to assign to MIT the Institute's rights with respect to inventions, discoveries, improvements, and other intellectual property, whether patentable or copyrightable (each a "subject property"), conceived or reduced to practice in the course of the research program conducted under the Collaboration Agreement by employees of the Institute; and

WHEREAS, research conducted pursuant to the Collaboration Agreement by Dr. Carl O. Pabo while employed by the Institute at MIT has resulted in the invention of certain subject property described in a technology disclosure form dated November 4, 1994, entitled "Design of DNA-Binding Proteins with Novel Sequence Specificity" and in a patent application entitled "Chimeric Transcription Factors" dated December 29, 1994, serial no. 08/366,083 (the "Invention").

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged by the Institute, the Institute agrees as follows:

- 1. <u>Assignment</u>. The Institute hereby assigns to MIT any and all right, title, and interest of the Institute in the Invention, any United States patent applications, all corresponding foreign patent applications, and any and all patents issued therefrom, all divisions and continuations based on any of the foregoing, and all claims contained in United States and foreign continuations-in-part applications and patents which are directed to the Invention, all in accordance with and subject to the provisions of the Collaboration Agreement (including, without limitation, Section 4.3 thereof).
- 2. <u>Cooperation</u>. The Institute agrees to execute upon request such further assignments, documents, and other instruments as may be necessary or desirable fully and completely to assign the Institute's interests in the Invention to MIT and to assist MIT in applying for, obtaining, and enforcing patents, copyrights, or other rights in the United States and in any foreign country with respect to any such Invention.

HOWARD HUGHES MEDICAL INSTITUTE

W. Maxwell Cowan, M.D., Ph.D.

Vice President and Chief Scientific Officer

State of Maryland Montgomery County

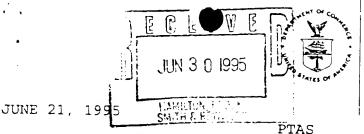
Then personally appeared before me the above-named W. MAXWELL COWAN, known to me to be the Vice President and Chief Scientific Officer of the Howard Hughes Medical Institute, and acknowledged that he executed the foregoing instrument as the free act and deed of the Howard Hughes Medical Institute, and that he was authorized to execute said instrument, this May of May of May 1995.

Many & Amound Notary Public

(SEAL)

Peggy J. Simonin (print name)

My Commission expires 08/10/98



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



PATRICIA GRANAHAN, ESQ. HAMILTON, BROOK, SMITH & REYNOLDS, P.C. TWO MILITIA DRIVE

LEXINGTON, MA 02173

AU6 1 3 1998 6 35

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/28/1995

REEL/FRAME: 7455/0674 NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PABO, CARL O.

DOC DATE: 03/06/1995

ASSIGNEE:

HOWARD HUGHES MEDICAL INSTITUTE 4000 JONES BRIDGE ROAD CHEVY CHASE, MARYLAND 20815-6789

SERIAL NUMBER: 08366083

PATENT NUMBER:

FILING DATE: 12/29/1994

ISSUE DATE:

LAWAN FLETCHER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

| FORM PTO-1595 (Rev. 6-93) OMB No. 0631-0011 (cxp. 15) Tab settings DD DD 10000000 | Patent and Trademark Office 7, CU Patent and Trademark Office |
|--|--|
| | Please record the attached original documents or copy thereof. |
| 1. Name of conveying party(ies): | Name and address of receiving party(ies) |
| Carl O. Pabo | Name: Howard Hughes Medical Institute |
| Additional name(s) of conveying party(ies) attached? ☐ Yes ☑ No | Internal Address: |
| 3. Nature of conveyance: | |
| | Street Address: 4000 Jones Bridge Road |
| ☐ Security Agreement ☐ Change of Name | |
| Other | City: Chevy Chase State: MD ZIP: 20815- |
| Execution Date: March 6, 1995 | Additional name(s) & address(es) attached? ☐ Yes ₺ No |
| 4. Application number(s) or patent number(s): | |
| If this document is being filed together with a new application | on, the execution date of the application is: |
| A. Patent Application No.(s) 08/366,083 | B. Patent No.(s) |
| | |
| Additional numbers a | tached? ☐ Yes ᡌ No |
| Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: 1 |
| Name: Patricia Granahan, Esq. | 7. Total fee (37 CFR 3.41)\$ 40.00 |
| Internal Address: Hamilton, Brook, Smith & | 집 Enclosed |
| Reynolds, P.C. | Authorized to be charged to deposit account |
| | 3 |
| Street Address: Two Militia Drive | 8. Deposit account number: |
| | |
| City: Lexington State: MA ZIP: 02173 | (Attach duplicate copy of this page if paying by deposit account) |
| 140° AH 05/08/95 08366083 DO NOTEU | SE THIS SPRACE) CK |
| 9. Statement and signature. To the best of my knowledge and belief, the foregoing informathe original document. To the best of my knowledge and belief, the foregoing information the original document. | mation is true and correct and any attached copy is a true copy of |
| Patricia Granahan, Esq. Yatua Name of Person Signing | Signature April 25, 1995 Date |
| | g cover sheet, attachments, and document: |

<u>Sole</u>

ASSIGNMENT

WHEREAS, I, Carl O. Pabo (hereinafter "the Assignor") have, together with co-inventors Joel L. Pomerantz and Philip A. Sharp, invented a certain new and useful improvement in CHIMERIC TRANSCRIPTION FACTORS described in an application for Letters Patent of the United States, Serial No. 08/366,083, filed December 29, 1994.

WHEREAS, Howard Hughes Medical Institute (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 4000 Jones Bridge Road, Chevy Chase, Maryland 20815-6789 desires to acquire an interest therein in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of the said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the said invention as described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of my entire right, title and interest therein.

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of

-2-

applications for patents in foreign countries, and the execution

of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved.

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

| affixed my seal the date | set forth below. |
|--|---|
| | Inventor: Carl O. Pabo |
| State/Commonwealth | |
| County of Middle Cex | |
| County of Middle Cex | |
| Then personally appeared in Carl O. Pabo and executed the foregoing indeed this do | acknowledged that he strument as his free act and |
| | William M. Toscano (print name) My Commission expires/_/_ |
| | WILLIAM M. TOSCANO, NOTARY PUBLIC MY COMMISSION EXPIRES APRIL 1, 1999 |



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

JUNE 21, 190

PTAS

PATRICIA GRANANHAN, ESO. HAMILTON, BROOK, SMITH & REYNOLDS, P.C. TWO MILITIA DRIVE

LEXINGTON, MA 02173

100002906A*

AUG 1 3 1998

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RECORDATION DATE: 04/28/1995

REEL/FRAME: 7455/0664

NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

POMERANTZ, JOEL L.

DOC DATE: 03/16/1995

ASSIGNOR:

SHARP, PHILLIP A.

DOC DATE: 03/13/1995

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 08366083

FILING DATE: 12/29/1994

PATENT NUMBER: ISSUE DATE:

DIANE RUSSELE, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

| FORM P . C-1595 / Rev. 6-93) OMB No. 0651-001 (Feb. 4045) | 05-12-1 | 995 | Short | | OF COMMERCE Trademark Office |
|---|---------------------------|--|-----------------------|--------------------------|---------------------------------|
| Tab settings a 2 - 1995 | | | <i>40.</i> ▼ | 7917-6834 0′ ▼ | V |
| To the Honorable Control Sioner of I | 1000029 | 3 5 | ⊿ttached origina | I documents or copy t | hereof. |
| 1. Name of conveying party(ies): (1) Joel L. Pomerantz and (2) Phillip A. Sharp Additional name(s) of conveying party(ies) attacked? Fraction of the conveying party (ies) attacked? Fraction | | 2. Name and address of receiving party(ies) Name: Massachusetts Institute of Technology Internal Address: | | | |
| 3. Nature of conveyance: | | | | | |
| ■ Assignment □ | Merger | Street Ad | idress: <u>77 M</u> | assachusetts Av | /enue |
| ☐ Security Agreement ☐ | Change of Name | | | | |
| □ Other | | City: Car | mbridge | _ State: _MA | ZIP: <u>02139</u> |
| Execution Date: (1) March 16, 1995 | | Additional n | name(s) & address | (es) attached? Yes 3 | 3 No |
| 4. Application number(s) or patent number(| (s): | | | | |
| If this document is being filed together w | vith a new application | n, the execution | date of the apr | olication is: | |
| | 6,083 | B. Pater | | | |
| <u> </u> | Additional numbers at | ached? 🗅 Yes 🗓 | No | | |
| 5. Name and address of party to whom concerning document should be mailed: | ' | 6. Total num | nber of application | ons and patents invol | ved: 1 |
| Name: Patricia Granahan, Esq. | | 7. Total fee | (37 CFR 3.41). | \$ 40.00 | |
| Internal Address: Hamilton, Brook, | Smith & | ⊠ Enclo | heed | | - |
| Reynolds, P.C. | _ | | | | |
| | | U Autho | orized to be cha | rged to deposit acco | ount |
| Street Address: Two Militia Drive | 2 | 8. Deposit a | account number | r: | |
| - | | 08-038 | 0 | | |
| City: Lexington State: MA | ZIP: <u>02173</u> | (Attach dup | licate copy of this p | page if paying by deposi | account) |
| 040 AH 05/08/95 08366063 | DO NOT US | THIS SPACE | r CK | | - |
| Statement and signature. To the best of my knowledge and belief, the original document. | the foregoing inform | ation is true and | d correct and ar | ny attached copy is a | a true copy of |
| Patricia Granahan, Esq. Name of Person Signing Total num | mber of pages including a | Signature Sover sheet, attachi | Ments, and docum | | 25 <u>1995</u> Date |

<u>Joint</u>

ASSIGNMENT

WHEREAS, we, Joel L. Pomerantz and Phillip A. Sharp (hereinafter "the Assignors"), have, together with co-inventor Carl O. Pabo, invented a certain new and useful improvement in CHIMERIC TRANSCRIPTION FACTORS described in an application for Letters Patent of the United States, Serial No. 08/366,083 filed December 29, 1994.

WHEREAS, Massachusetts Institute of Technology (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the stae of Massachusetts, and having a usual place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of the said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of our entire right, title and interest therein.

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution

of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

| | Inventor: Joel L. Pomerantz |
|---|--|
| State/Commonwealth | V - |
| of Massachusetts | |
| County of Mindlesex | |
| Then personally appeared by Joel L. Pomerantz and executed the foregoing induction deed this (c**) do | before me the above-named d acknowledged that he strument as his free act and ay of <u>Macch</u> , 1945. |
| (SEAL) | Dorest M. Sovensen (print name) My Commission expires 1 / 30 / 98 |

| | Inventor: |
|------------------------|---|
| | Phillip A. Sharp |
| State/Commonwealth | |
| of | |
| County of | |
| executed the foregoing | ed before me the above-named and acknowledged that he instrument as his free act and day of, 19 |
| (0727) | Notary Public |
| (SEAL) | (print name) |
| | My Commission expires / / |

<u>Joint</u>

ASSIGNMENT

WHEREAS, we, Joel L. Pomerantz and Phillip A. Sharp (hereinafter "the Assignors"), have, together with co-inventor Carl O. Pabo, invented a certain new and useful improvement in CHIMERIC TRANSCRIPTION FACTORS described in an application for Letters Patent of the United States, Serial No. 08/366,083 filed December 29, 1994.

WHEREAS, Massachusetts Institute of Technology (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the stae of Massachusetts, and having a usual place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of the said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and . all Letters Patent by attorneys and agents of ASSIGNEE selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of our entire right, title and interest therein.

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution

of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

| | Inventor: | | | | |
|---|--------------|----------|-----|----------|--------|
| | | Joel | L. | Pomerant | Z |
| State/Commonwealth | | | | | |
| of | | | | | |
| County of | | | | | |
| Then personally appeare Joel L. Pomerantz executed the foregoing deed this | and acknowle | edged th | at | he | |
| (SEAL) | - | | · | Notary | Public |
| (BIAI) | | | | (print | |
| | My Commiss | ion exp | ire | s / _ | / |

Inventor:

State/Commonwealth

of Manachusetts

County of Mendicsey

Then personally appeared before me the above-named Phillip A. Sharp and acknowledged that he executed the foregoing instrument as his free act and deed this 13 day of Masch 1995.

(SEAL)

My Commission expires 4/199199